Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-10-18-02** **Date: 20-10-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Providing CC Roads and Improvements to Drains in Ward No. 05 Byatarayanapura sub Division.
Agency	:	Executive Engineer, KRIDL,#280, 59th Cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/145/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-10-18
Sample ID No	:	2018-10-18-02 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	19-10-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.95	–
2	Finess by Air permeablity method (m^2/kg,Min)	287.5	225m^2/kg, Min
3	Density (gm/cc)	3.15	–
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	160 minutes	Not less than 30 minutes
6	Final Setting time	290 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

This report without prior written approval should not be reproduced or published in full or part.

Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO Sig..... Date..... BANGALORE

Page 1/1
****End of Report****

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-10-18-02** **Date: 26-10-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Providing CC Roads and Improvements to Drains in Ward No. 05 Byatarayanapura sub Division.
Agency	:	Executive Engineer, KRIDL,#280, 59th Cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/145/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-10-18
Sample ID No	:	2018-10-18-02 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	19-10-18
Environmental Conditions during test	:	Temperature: 26˚C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.5N/mm^2	Not less than 37 N/mm^2

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO BANGALORE Sig..... Date.....

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-10-18-02** **Date: 20-10-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Providing CC Roads and Improvements to Drains in Ward No. 05 Byatarayanapura sub Division.
Agency	:	Executive Engineer, KRIDL,#280, 59th Cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/145/2018-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	18-10-18
Sample ID No	:	2018-10-18-02 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	18-10-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	1215	1215	8.1	91.9	90-100
3	20 mm	5320	6535	43.6	56.4	30-70
4	10 mm	6255	12790	85.3	14.7	10-35
5	4.75 mm	1637	14427	96.2	3.8	0-5
6	Pan	573	15000	100.0	0	---

CIVIL PRO BANGALORE Sig..... Date.....

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-10-18-02** **Date: 20-10-18**

Sample ID No : 2018-10-18-02 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.3	
3	Specific Gravity	2.66	_
4	Bulk Density(Loose) (Kg/l)	1.49	_
5	Bulk Density(Compacted) (Kg/l)	1.52	_
6	Water Absorption(%)	0.21	_

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO Sig..... Date..... BANGALORE

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-10-18-02** **Date: 20-10-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Providing CC Roads and Improvements to Drains in Ward No. 05 Byatarayanapura sub Division.
Agency	:	Executive Engineer, KRIDL,#280, 59th Cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangalore-560010.
Customer Reference	:	BBMP/EE/BTP/WO/145/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-10-18
Sample ID No	:	2018-10-18-02 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	18-10-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	423	423	8.5	91.5	90-100
3	10 mm	2537	2960	59.2	40.8	25-55
4	4.75 mm	1636	4596	91.9	8.1	0-10
5	Pan	404	5000	100	0	–

CIVIL PRO Sig..... Date.....

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-10-18-02** **Date: 20-10-18**

Sample ID No : 2018-10-18-02 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.5	
3	Specific Gravity	2.58	–
4	Bulk Density(Loose) (Kg/l)	1.52	–
5	Bulk Density(Compacted) (Kg/l)	1.58	–
6	Water Absorption(%)	0.26	–
7	Aggregate crushing Value(%)	24.2	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.1	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signature
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

End of Report

Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2018-10-18-02** **Date: 20-10-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Providing CC Roads and Improvements to Drains in Ward No. 05 Byatarayanapura sub Division.
Agency	:	Executive Engineer, KRIDL,#280, 59th Cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/145/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-10-18
Sample ID No	:	2018-10-18-02 /03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	18-10-18
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	25	25	2.5	97.5	90-100	90-100	90-100	95-100
3	2.36 mm	127	152	15.2	84.8	60-95	75-100	85-100	95-100
4	1.18 mm	275	427	42.7	57.3	30-70	55-90	75-100	90-100
5	600 micron	137	564	56.4	43.6	15-34	35-59	60-79	80-100
6	300 micron	189	753	75.3	24.7	5-20	8-30	12-40	15-50
7	150 micron	154	907	90.7	9.3	0-10	0-10	0-10	0-15
8	Pan	93	1000	100.0	0.0	---	---	---	---
Result :The tested Sample Conforms to Grading Zone II									

CIVIL PRO Sig..... Date..... BANGALORE

TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2018-10-18-02 Date: 20-10-18

Sample ID No : 2018-10-18-02 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.64	–
2	Specific Gravity	2.58	–
3	Material finer than 75 micron(%)	7.8	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2018-10-18-02** **Date: 22-10-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Providing CC Roads and Improvements to Drains in Ward No. 05 Byatarayanapura sub Division.
Agency	:	Executive Engineer, KRIDL,#280, 59th Cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/145/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-10-18
Sample ID No	:	2018-10-18-02 /07
Sample Type/Size	:	Solid concrete blocks size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	19-10-18

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	402	201	202	16322	32.750	2006.5	2031.1	Not less than 1800Kg/m^3
2	401	202	201	16281	32.890	2020.1		
3	401	201	202	16281	33.650	2066.8		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	35.790	34.650	3.29	3.21	Shall not be more than 10% by mass
2	35.880	34.800	3.10		
3	35.250	34.140	3.25		

CIVIL PRO Sig..... Date..... BANGALORE

Lab ID : CP-2018-10-18-02 Date: 22-10-18

Sample ID No : 2018-10-18-02 /07

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	402	201	80802	318.9	3.9	4.1
2	403	202	81406	321.8	4.0	
3	402	202	81204	342.5	4.2	
4	401	203	81403	318.9	3.9	
5	403	203	81809	329.5	4.0	
6	402	202	81204	319.5	3.9	
7	402	203	81606	355.7	4.4	
8	402	202	81204	342.9	4.2	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO Sig..... Date..... BANGALORE

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2018-10-18-02**	**Date: 23-10-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.	
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.	
Project Name	:	Providing CC Roads and Improvements to Drains in Ward No. 05 Byatarayanapura sub Division.	
Agency	:	Executive Engineer, KRIDL,#280, 59th Cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangalore-560010.	
Customer's Reference	:	BBMP/EE/BTP/WO/145/2018-19	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	18-10-18	
Sample ID No	:	2018-10-18-02 /06	
Sample Type /Size	:	Precast Cover Slab	
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete	
Date of test	:	19/10/2018	

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	100.51	150.48	2.416	7933	170.6	21.5	21.5	26.9
2	Cover Slab-2	100.49	150.52	2.522	7930	169.8	21.4	21.4	26.8
3	Cover Slab-3	100.50	150.51	2.418	7931	172.6	21.8	21.8	27.2

Note:

The results pertain to the samples received and tested.
All information furnished by the Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO Sig..... Date..... BANGALORE

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID	:	**CP-2018-10-18-02** **Date: 20-10-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Providing CC Roads and Improvements to Drains in Ward No. 05 Byatarayanapura sub Division.
Agency	:	Executive Engineer, KRIDL,#280, 59th Cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/145/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-10-18
Sample ID No	:	2018-10-18-02 /04
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	19-10-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.392	536	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.618	548	655	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	566	674	19.0%	Satisfactory	Satisfactory

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO Sig..... Date..... BANGALORE

End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

TEST RESULTS OF GRADATION FOR WBM

Lab ID	:	**CP-RW-2018-10-18-02** **Date: 20-10-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Providing CC Roads and Improvements to Drains in Ward No. 05 Byatarayanapura sub Division.
Agency	:	Executive Engineer, KRIDL,#280, 59th Cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangalore-560010.
Customer Reference	:	BBMP/EE/BTP/WO/145/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-10-18
Sample ID No	:	2018-10-18-02/01
Type of Mix	:	WBM (Water Bound Macadam)
Date of test	:	18-10-18

Grading for Coarse Aggregate

Oven Dry Weight : 5000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.09 MORTH Specification
63	0	0	0.0	100.0	100
53	315	315	6.3	93.7	95-100
45	1085	1400	28.0	72.0	65-90
22.4	3295	4695	93.9	6.1	0-10
11.2	198	4893	97.9	2.1	0-5
Pan	107	5000	100.0	0.0	0

Grading for Screenings

Oven Dry Weight : 2000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.10 MORTH Specification
11.2	0	0	0.0	100.0	100
9.5	118	118	5.9	94.1	80-100
5.6	841	959	48.0	52.1	50-70
0.18	585	1544	77.2	22.8	5-25
Pan	456	2000	100.0	0.0	0

Note:-

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro BANGALORE Sig..... Date.....

Page 1/1
End of Report

TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2018-10-18-02**	**Date: 20-10-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.	
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.	
Project Name	:	Providing CC Roads and Improvements to Drains in Ward No. 05 Byatarayanapura sub Division.	
Agency	:	Executive Engineer, KRIDL,#280, 59th Cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangalore-560010.	
Customer Reference	:	BBMP/EE/BTP/WO/145/2018-19	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	18-10-18	
Sample ID No	:	2018-10-18-02/01	
Type of Mix	:	Coarse Aggregate for WBM (Water Bound Macadam)	
Date of test	:	18-10-18	

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.4	300.4
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.9	74.1
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.9	226.1
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.6	0.3
5	Aggregate impact value	(B/A)*100	24.6	24.7
6	Aggregate impact value (Mean of two tests)	Pecentage	24.6	

Note:-
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO BANGALORE Sig..... Date.....

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2018-10-18-02** **Date: 20-10-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Providing CC Roads and Improvements to Drains in Ward No. 05 Byatarayanapura sub Division.
Agency	:	Executive Engineer, KRIDL,#280, 59th Cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangalore-560010.
Customer Reference	:	BBMP/EE/BTP/WO/145/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-10-18
Sample ID No	:	2018-10-18-02/01
Type of Mix	:	Coarse Aggregate for WBM (Water Bound Macadam)
Date of test	:	18-10-18

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-08
Flakiness Index	12.8%	Combined Flakiness & Elongation Index for WBM is Maximum 35%
Elongation Index	12.9%	
Combined Flakiness and Elongation Index for WBM	25.7%	

Note:-
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO BANGALORE Sig..... Date.....

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-10-25-02** **Date: 30/10/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Providing CC Roads and Improvements to Drains in Ward No. 05 Byatarayanapura sub Division.

Agency : Executive Engineer, KRIDL,#280, 59th Cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/145/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-10-18

Sample ID No : 2018-10-25-02 /01

Customer ID : CC Road(M20 RMC)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	CC Road(M20 RMC)	M20	23/10/2018	30/10/2018	150.42 X 150.54 X 150.45	22644	8.312	389.5	17.2	17.6
2	CC Road(M20 RMC)	M20	23/10/2018	30/10/2018	150.42 X 150.54 X 150.45	22644	8.331	403.1	17.8	
3	CC Road(M20 RMC)	M20	23/10/2018	30/10/2018	150.32 X 150.54 X 150.35	22629	8.345	402.8	17.8	

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-10-25-02** **Date: 20/11/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Providing CC Roads and Improvements to Drains in Ward No. 05 Byatarayanapura sub Division.

Agency : Executive Engineer, KRIDL,#280, 59th Cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/145/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-10-18

Sample ID No : 2018-10-25-02 /01

Customer ID : CC Road(M20 RMC)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	CC Road(M20 RMC)	M20	23/10/2018	20/11/2018	150.16 X 150.80 X 151.38	22644	**8.366**	535.5	23.6	23.3
2	CC Road(M20 RMC)	M20	23/10/2018	20/11/2018	149.57 X 150.74 X 151.95	22546	**8.169**	510.8	22.7	
3	CC Road(M20 RMC)	M20	23/10/2018	20/11/2018	150.17 X 151.92 X 150.57	22815	**8.307**	535.7	23.5	

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro BANGALORE Sig..... Date.....

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-10-25-02** **Date: 30/10/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Providing CC Roads and Improvements to Drains in Ward No. 05 Byatarayanapura sub Division.

Agency : Executive Engineer, KRIDL,#280, 59th Cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/145/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-10-18

Sample ID No : 2018-10-25-02 /02

Customer ID : CC Road(M20 RMC)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	CC Road(M20 RMC)	M20	23/10/2018	30/10/2018	150.42 X 150.54 X 150.45	22644	8.312	398.5	17.6	17.3
2	CC Road(M20 RMC)	M20	23/10/2018	30/10/2018	150.42 X 150.54 X 150.45	22644	8.331	385.0	17.0	
3	CC Road(M20 RMC)	M20	23/10/2018	30/10/2018	150.32 X 150.54 X 150.35	22629	8.345	389.2	17.2	

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO BANGALORE Sig..... Date.....

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-10-25-02** **Date: 20/11/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Providing CC Roads and Improvements to Drains in Ward No. 05 Byatarayanapura sub Division.

Agency : Executive Engineer, KRIDL,#280, 59th Cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/145/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-10-18

Sample ID No : 2018-10-25-02 /02

Customer ID : CC Road(M20 RMC)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	CC Road(M20 RMC)	M20	23/10/2018	20/11/2018	151.13 X 150.92 X 150.28	22808	**8.114**	540.1	23.7	23.2
2	CC Road(M20 RMC)	M20	23/10/2018	20/11/2018	149.41 X 149.86 X 150.88	22390	**8.987**	499.5	22.3	
3	CC Road(M20 RMC)	M20	23/10/2018	20/11/2018	151.62 X 151.08 X 150.79	22908	**8.502**	541.2	23.6	

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO Sig..... Date..... BANGALORE

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-10-25-02** **Date: 30/10/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Providing CC Roads and Improvements to Drains in Ward No. 05 Byatarayanapura sub Division.

Agency : Executive Engineer, KRIDL,#280, 59th Cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/145/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-10-18

Sample ID No : 2018-10-25-02 /03

Customer ID : CC Road(M20 RMC)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	CC Road(M20 RMC)	M20	23/10/2018	30/10/2018	150.42 X 150.54 X 150.45	22644	8.312	398.5	17.6	17.1
2	CC Road(M20 RMC)	M20	23/10/2018	30/10/2018	150.42 X 150.54 X 150.45	22644	8.331	380.4	16.8	
3	CC Road(M20 RMC)	M20	23/10/2018	30/10/2018	150.32 X 150.54 X 150.35	22629	8.345	382.4	16.9	

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro BANGALORE Sig..... Date.....

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-10-25-02** **Date: 20/11/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Providing CC Roads and Improvements to Drains in Ward No. 05 Byatarayanapura sub Division.

Agency : Executive Engineer, KRIDL,#280, 59th Cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/145/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-10-18

Sample ID No : 2018-10-25-02 /03

Customer ID : CC Road(M20 RMC)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	CC Road(M20 RMC)	M20	23/10/2018	20/11/2018	149.60 X 149.58 X 150.00	22377	**8.684**	518.6	23.2	23.3
2	CC Road(M20 RMC)	M20	23/10/2018	20/11/2018	151.77 X 150.37 X 150.95	22822	**8.473**	522.6	22.9	
3	CC Road(M20 RMC)	M20	23/10/2018	20/11/2018	151.19 X 150.75 X 150.28	22791	**9.051**	544.0	23.9	

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro BANGALORE Sig..... Date.....

Page 1/1
****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-10-25-02** **Date: 30/10/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Providing CC Roads and Improvements to Drains in Ward No. 05 Byatarayanapura sub Division.

Agency : Executive Engineer, KRIDL,#280, 59th Cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/145/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-10-18

Sample ID No : 2018-10-25-02 /04

Customer ID : CC Road(M20 RMC)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	CC Road(M20 RMC)	M20	23/10/2018	30/10/2018	150.42 X 150.54 X 150.45	22644	8.312	389.5	17.2	17.3
2	CC Road(M20 RMC)	M20	23/10/2018	30/10/2018	150.42 X 150.54 X 150.45	22644	8.331	403.1	17.8	
3	CC Road(M20 RMC)	M20	23/10/2018	30/10/2018	150.32 X 150.54 X 150.35	22629	8.345	380.2	16.8	

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO BANGALORE Sig..... Date.....

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-10-25-02** **Date: 20/11/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Providing CC Roads and Improvements to Drains in Ward No. 05 Byatarayanapura sub Division.

Agency : Executive Engineer, KRIDL,#280, 59th Cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/145/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-10-18

Sample ID No : 2018-10-25-02 /04

Customer ID : CC Road(M20 RMC)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	CC Road(M20 RMC)	M20	23/10/2018	20/11/2018	151.45 X 149.77 X 149.34	22683	**8.836**	543.0	23.9	23.3
2	CC Road(M20 RMC)	M20	23/10/2018	20/11/2018	150.78 X 150.91 X 150.78	22754	**8.283**	512.6	22.5	
3	CC Road(M20 RMC)	M20	23/10/2018	20/11/2018	149.11 X 149.81 X 150.61	22338	**8.741**	522.1	23.4	

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-10-25-02** **Date: 30/10/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Providing CC Roads and Improvements to Drains in Ward No. 05 Byatarayanapura sub Division.

Agency : Executive Engineer, KRIDL,#280, 59th Cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/145/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-10-18

Sample ID No : 2018-10-25-02 /05

Customer ID : CC Road(M20 RMC)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	CC Road(M20 RMC)	M20	23/10/2018	30/10/2018	150.42 X 150.54 X 150.45	22644	8.312	389.5	17.2	17.2
2	CC Road(M20 RMC)	M20	23/10/2018	30/10/2018	150.42 X 150.54 X 150.45	22644	8.331	398.5	17.6	
3	CC Road(M20 RMC)	M20	23/10/2018	30/10/2018	150.32 X 150.54 X 150.35	22629	8.345	382.4	16.9	

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R.KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro BANGALORE Sig..... Date.....

Page 1/1
****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-10-25-02** **Date: 20/11/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Providing CC Roads and Improvements to Drains in Ward No. 05 Byatarayanapura sub Division.

Agency : Executive Engineer, KRIDL,#280, 59th Cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/145/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-10-18

Sample ID No : 2018-10-25-02 /05

Customer ID : CC Road(M20 RMC)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	CC Road(M20 RMC)	M20	23/10/2018	20/11/2018	151.11 X 149.78 X 150.53	22633	**8.851**	523.4	23.1	23.1
2	CC Road(M20 RMC)	M20	23/10/2018	20/11/2018	150.95 X 151.03 X 151.40	22797	**8.731**	513.4	22.5	
3	CC Road(M20 RMC)	M20	23/10/2018	20/11/2018	151.55 X 150.24 X 149.98	22769	**8.101**	539.3	23.7	

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO Sig..... Date..... BANGALORE

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-10-25-02** **Date: 30/10/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Providing CC Roads and Improvements to Drains in Ward No. 05 Byatarayanapura sub Division.

Agency : Executive Engineer, KRIDL,#280, 59th Cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/145/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-10-18

Sample ID No : 2018-10-25-02 /06

Customer ID : CC Road(M20 RMC)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	CC Road(M20 RMC)	M20	23/10/2018	30/10/2018	150.42 X 150.54 X 150.45	22644	8.312	403.1	17.8	17.1
2	CC Road(M20 RMC)	M20	23/10/2018	30/10/2018	150.42 X 150.54 X 150.45	22644	8.331	380.4	16.8	
3	CC Road(M20 RMC)	M20	23/10/2018	30/10/2018	150.32 X 150.54 X 150.35	22629	8.345	380.2	16.8	

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

Page 1/1
****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-10-25-02** **Date: 20/11/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Providing CC Roads and Improvements to Drains in Ward No. 05 Byatarayanapura sub Division.

Agency : Executive Engineer, KRIDL,#280, 59th Cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/145/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-10-18

Sample ID No : 2018-10-25-02 /06

Customer ID : CC Road(M20 RMC)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	CC Road(M20 RMC)	M20	23/10/2018	20/11/2018	151.83 X 151.75 X 151.90	23040	**8.388**	552.0	24.0	23.2
2	CC Road(M20 RMC)	M20	23/10/2018	20/11/2018	149.93 X 149.28 X 151.93	22382	**8.412**	499.8	22.3	
3	CC Road(M20 RMC)	M20	23/10/2018	20/11/2018	149.69 X 150.36 X 151.32	22506	**8.804**	522.2	23.2	

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

Page 1/1
****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-10-25-02** **Date: 30/10/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Providing CC Roads and Improvements to Drains in Ward No. 05 Byatarayanapura sub Division.

Agency : Executive Engineer, KRIDL,#280, 59th Cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/145/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-10-18

Sample ID No : 2018-10-25-02 /07

Customer ID : CC Road(M20 RMC)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	CC Road(M20 RMC)	M20	23/10/2018	30/10/2018	150.42 X 150.54 X 150.45	22644	8.312	389.5	17.2	17.3
2	CC Road(M20 RMC)	M20	23/10/2018	30/10/2018	150.42 X 150.54 X 150.45	22644	8.331	403.1	17.8	
3	CC Road(M20 RMC)	M20	23/10/2018	30/10/2018	150.32 X 150.54 X 150.35	22629	8.345	380.2	16.8	

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

Page 1/1
****End of Report****

CIVIL PRO
AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

	:	**CP-2018-10-25-02** **Date: 20/11/2018**
omer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
ress	:	Byatarayanapura Sub Division, BBMP, Bangalore.
oject Name	:	Providing CC Roads and Improvements to Drains in Ward No. 05 Byatarayanapura sub Division.
Agency	:	Executive Engineer, KRIDL,#280, 59th Cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/145/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-10-18
Sample ID No	:	2018-10-25-02 /07
Customer ID	:	CC Road(M20 RMC)
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	20/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	CC Road(M20 RMC)	M20	23/10/2018	20/11/2018	151.04 X 151.42 X 151.43	22869	**8.559**	544.4	23.8	23.4
2	CC Road(M20 RMC)	M20	23/10/2018	20/11/2018	149.94 X 149.93 X 149.07	22481	**8.798**	503.0	22.4	
3	CC Road(M20 RMC)	M20	23/10/2018	20/11/2018	150.29 X 151.77 X 150.66	22809	**8.242**	547.0	24.0	

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO BANGALORE Sig..... Date.....

Page 1/1
****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-10-23-02** **Date: 29/10/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Providing CC Roads and Improvements to Drains in Ward No. 05 Byatarayanapura sub Division.

Agency : Executive Engineer, KRIDL,#280, 59th Cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/145/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-10-18

Sample ID No : 2018-10-23-02 /03

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	21/10/2018	28/10/2018	150.42 X 150.54 X 150.45	22644	8.312	389.5	17.2	17.5
2	Drain Concrete	M20	21/10/2018	28/10/2018	150.42 X 150.54 X 150.45	22644	8.331	394.0	17.4	
3	Drain Concrete	M20	21/10/2018	28/10/2018	150.32 X 150.54 X 150.35	22629	8.345	402.8	17.8	

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

Page 1/1
****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-10-23-02** **Date: 18/11/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Providing CC Roads and Improvements to Drains in Ward No. 05 Byatarayanapura sub Division.

Agency : Executive Engineer, KRIDL,#280, 59th Cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/145/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-10-18

Sample ID No : 2018-10-23-02 /03

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	21/10/2018	18/11/2018	151.53 X 150.73 X 149.99	22840	**9.051**	542.7	23.8	23.3
2	Drain Concrete	M20	21/10/2018	18/11/2018	151.80 X 151.54 X 149.93	23004	**8.602**	521.9	22.7	
3	Drain Concrete	M20	21/10/2018	18/11/2018	149.32 X 151.37 X 149.75	22604	**8.467**	532.9	23.6	

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-10-23-02** **Date: 28/10/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Providing CC Roads and Improvements to Drains in Ward No. 05 Byatarayanapura sub Division.

Agency : Executive Engineer, KRIDL,#280, 59th Cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/145/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-10-18

Sample ID No : 2018-10-23-02 /04

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	21/10/2018	28/10/2018	150.42 X 150.54 X 150.45	22644	8.312	389.5	17.2	17.5
2	Drain Concrete	M20	21/10/2018	28/10/2018	150.42 X 150.54 X 150.45	22644	8.331	398.5	17.6	
3	Drain Concrete	M20	21/10/2018	28/10/2018	150.32 X 150.54 X 150.35	22629	8.345	398.3	17.6	

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO Sig..... Date..... BANGALORE

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-10-23-02** **Date: 18/11/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Providing CC Roads and Improvements to Drains in Ward No. 05 Byatarayanapura sub Division.

Agency : Executive Engineer, KRIDL,#280, 59th Cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/145/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-10-18

Sample ID No : 2018-10-23-02 /04

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	21/10/2018	18/11/2018	149.10 X 150.93 X 151.58	22503	**8.466**	524.1	23.3	23.2
2	Drain Concrete	M20	21/10/2018	18/11/2018	149.53 X 150.31 X 150.14	22477	**8.209**	507.4	22.6	
3	Drain Concrete	M20	21/10/2018	18/11/2018	151.13 X 151.64 X 149.87	22917	**8.335**	543.0	23.7	

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO Sig..... Date..... BANGALORE

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-10-23-02** **Date: 29/10/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Providing CC Roads and Improvements to Drains in Ward No. 05 Byatarayanapura sub Division.

Agency : Executive Engineer, KRIDL,#280, 59th Cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/145/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-10-18

Sample ID No : 2018-10-23-02 /02

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	21/10/2018	28/10/2018	150.22 X 150.54 X 150.55	22614	8.145	402.5	17.8	17.7
2	Drain Concrete	M20	21/10/2018	28/10/2018	150.22 X 150.54 X 150.55	22614	8.169	402.5	17.8	
3	Drain Concrete	M20	21/10/2018	28/10/2018	150.22 X 150.54 X 150.55	22614	8.144	398.0	17.6	

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO BANGALORE Sig..... Date.....

Page 1/1
****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-10-23-02** **Date: 18/11/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Providing CC Roads and Improvements to Drains in Ward No. 05 Byatarayanapura sub Division.

Agency : Executive Engineer, KRIDL,#280, 59th Cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/145/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-10-18

Sample ID No : 2018-10-23-02 /02

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	21/10/2018	18/11/2018	150.93 X 149.46 X 151.33	22558	**8.287**	539.3	23.9	23.4
2	Drain Concrete	M20	21/10/2018	18/11/2018	149.49 X 150.38 X 149.32	22481	**8.932**	502.0	22.3	
3	Drain Concrete	M20	21/10/2018	18/11/2018	151.49 X 151.55 X 151.70	22958	**8.116**	546.6	23.8	

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO Sig..... Date..... BANGALORE

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-10-23-02** **Date: 29/10/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Providing CC Roads and Improvements to Drains in Ward No. 05 Byatarayanapura sub Division.

Agency : Executive Engineer, KRIDL,#280, 59th Cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/145/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-10-18

Sample ID No : 2018-10-23-02 /01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	21/10/2018	28/10/2018	150.42 X 150.54 X 150.45	22644	8.312	394.0	17.4	17.5
2	Drain Concrete	M20	21/10/2018	28/10/2018	150.42 X 150.54 X 150.45	22644	8.331	398.5	17.6	
3	Drain Concrete	M20	21/10/2018	28/10/2018	150.32 X 150.54 X 150.35	22629	8.345	398.3	17.6	

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO Sig..... Date..... BANGALORE

Page 1/1
****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-10-23-02** **Date: 18/11/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Providing CC Roads and Improvements to Drains in Ward No. 05 Byatarayanapura sub Division.

Agency : Executive Engineer, KRIDL,#280, 59th Cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/145/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-10-18

Sample ID No : 2018-10-23-02 /01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	21/10/2018	18/11/2018	150.00 X 149.77 X 150.51	22465	**8.678**	526.8	23.4	23.3
2	Drain Concrete	M20	21/10/2018	18/11/2018	149.47 X 150.39 X 149.48	22478	**8.745**	512.1	22.8	
3	Drain Concrete	M20	21/10/2018	18/11/2018	151.53 X 150.19 X 150.24	22758	**8.255**	535.6	23.5	

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

****End of Report****